

Assignment

Process Management.

1. Which command entered without arguments is used to display a list of processes running in the current shell?

- a. ppid
- b. list
- c. pid
- d. ps

2. Which process will always have a PID of 1 and a PPID of 0?

- a. the kernel itself
- b. ps
- c. init
- d. top

3. A process spawning or initiating another process is referred to as _____.

- a. a child process
- b. forking
- c. branching
- d. parenting

4. As daemon processes are not associated with terminals, you must use the `-e` switch with the `ps` command to view them. True or False?

5. Which of the following commands will most likely increase the chance of a process receiving more time slices?

- a. `renice 0`
- b. `renice 15`
- c. `renice -12`
- d. `renice 19`

6. How can you bypass the wait function and send a user process to the background?

- a. This cannot happen once a process is executing; it can be done only when the command is started by placing an ampersand (&) after it.
- b. This cannot happen; only daemon processes can run in the background.
- c. You can use the `ps` command.
- d. You can use the `Ctrl+z` key combination and the `bg` command.

7. Every process has a process ID and a _____.

- a. fork process
- b. daemon
- c. child process
- d. parent process ID

8. The `killall` command terminates _____.

- a. all instances of a process with the same PPID
- b. all instances of a process with the same PID
- c. all instances of a process with the same priority

d. all instances of a process with the same name

9. Nice values are used to affect process priorities using a range between _____.

- a. 0 and 20
- b. 0 and -19
- c. -19 and 20
- d. -20 and 19

10. What is the name given to a process not associated with a terminal?

- a. child process
- b. parent process
- c. user process
- d. daemon process

10. To kill a process running in the background, you must place a % character before its process ID. True or False?

11. What kill level signal cannot be trapped?

- a. 1
- b. 9
- c. 3
- d. 15

12. A runaway process that is faulty and consuming mass amounts of system resources _____.

- a. is a zombie process
- b. is an orphaned process
- c. has a PPID of Z
- d. is a rogue process

13. When you run the ps command, how are daemon processes recognized?

- a. The terminal is listed as tty0.
- b. There is a question mark in the TTY column.
- c. There is an asterisk in the STIME column.
- d. There is a "d" for daemon in the terminal identification column.

14. Which command is used to gain real-time information about processes running on the system, with the most processor-intensive processes listed at the beginning of the list?

- a. ps
- b. ps -elf
- c. top
- d. top -l

15. Which command can be used to see processes running in the background?

- a. bg
- b. jobs
- c. ps -%
- d. fg